



Catalogue2020

PCR Real-Time kits

Values to rely on

GENERON assays feed your safety and quality assurance through our best direct technical support



Expertise

Food safety specialists

At Generon, we bring our market expertise and product innovation directly to your business. We founded GENERON biotechnology laboratories in Modena, in the heart of Italian food Valley. As food safety specialists we create sharp, cost effective test kits to provide you with accurate and ready-to-use solutions.



By your side

Support and partnership

At Generon, we are driven by our customers. Food market players are increasingly aware and must tackle changing high standards. Choosing GENERON as a partner gives you access to the best analytical tools portfolio that we have customized and evaluated for you to be best-in range exceeding your expectations.



Action team

Strenght in connection

At Generon, we are continuously investing in our international professional team. Behind each GENERON assay there is a team of molecular and micro-biologists, chemists, food technologists, customer service and sales specialists all connected and committed to earn your trust and boost your quality control diagnostics through profitable partnership.



Time for value

Immediate solutions

At Generon, we ensure your value by providing timely support and science on-demand. Through constant research, we select and rigorously evaluate all the new solutions that science and technology advancements offer to guarantee you designed-in quality and high-speed tests to perfectly match the requirements of your industry business process.



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ION

Extraction Kits

Nucleic acids based analysis methods and their standardization are the core of Generon R&D and sales activities as we aim to be the most reliable partner in this field for food and beverage industry.

ION is the portfolio of DNA extraction products developed by Generon to exploit at best Real-Time PCR and Droplet Digital PCR, three kits with different profiles to offer the customer the most convenient solution to fit the technical demands.

- **ION Liquid FORCE**: the rapid solution specifically developed for crude and fast extraction of bacteria DNA after media broth enrichment.
- **ION Spin DNA Prep One-for-All**: CTAB based kit for the extraction of DNA from small samples containing PCR inhibiting compounds.
- **ION Force DNA extractor FAST**: CTAB based kit for the extraction of DNA from large samples when representativeness is of paramount importance.

Ion Force DNA Extractor FAST is used at the Italian National Reference Lab for GMO as it allows reproducible DNA extractions from matrices the other available commercial kits are not able to perform on, giving poor and uneven DNA yields.

- **DirectZol miniprep**: quick, spin column purification of high-quality (DNA-free) RNA directly from TRI Reagent and other acid-guanidinium-phenol based reagents.

Product List	100 Test	50 Tests
ION Spin DNA Prep One-for-All	-	EXD018
ION Force DNA Extractor FAST	EXD001	-
FAST FOOD Universal DNA extraction kit	EXD009	-
Zymo DirectZol miniprep w/ Trireagent	-	EXD901



PATHfinder

Microbiology Kits

PATHfinder is the portfolio of products developed by Generon to exploit at best Real-Time PCR, and offers to the customer optimized and validated protocols to verify the presence of a wide range of pathogenic or spoilage micro-organisms by searching their DNA.

The collection includes:

- **PATHfinder Assays:** primers and probes developed on the basis of peer reviewed scientific articles after an in depth in-silico and in-vitro confirmation of the published data, blended with selected polymerases to ensure best-in-class detection. Each assay box contains target specific reagents (primers and probes), Mastermix, negative control and positive control.
- **PATHfinder SureXtra:** heat inactivated bacterial pellets at known cell count ensuring a tight control of DNA extraction process efficacy.
- **PATHfinder DigiCount:** innovative ddPCR counted calibrators for best state-of-art accuracy in genomic unit quantification.

Product List	50 Tests
PATHfinder - 3Plex Detection of Anisakis/Pseudoterranova in fish	PMB66A-50
PATHfinder - Detection of foodborne Bacillus Cereus	PMB09A-50
PATHfinder - Detection of Brettanomyces in wine products	PMB65A-50
PATHfinder - Detection of foodborne Clostridium botulinum	PMB44A-50
PATHfinder - Detection of foodborne C. botulinum (ISO-17919)	PMB67A-50
PATHfinder - Detection of foodborne Clostridium perfringens	PMB06A-50
PATHfinder - Detection of foodborne Cryptosporidium	PMB42A-50
PATHfinder - Detection of foodborne E.coli and Shigella spp.	PMB14A-50
PATHfinder - 2x2-Plex STEC stx1+stx2/stx2f & eae/IAC (ISO13136)	PMB10A-F-50
PATHfinder - Detection of foodborne E.coli H:4 [fliC]	PMB10A-H4
PATHfinder - Detection of foodborne E.coli H:7 [fliC]	PMB10A-H7
PATHfinder - Detection of E.coli O:103 [wzx] (acc. to ISO13136)	PMB10A-P103
PATHfinder - Detection of foodborne E.coli O:104 [wzx]	PMB10A-P104
PATHfinder - Detection of E.coli O:111 [wbdL] (acc. to ISO13136)	PMB10A-P111
PATHfinder - Detection of foodborne E.coli O:121 [wzx]	PMB10A-P121
PATHfinder - Detection of E.coli O:145 [ihp1] (acc. to ISO13136)	PMB10A-P145
PATHfinder - Detection of E.coli O:157 [rfbE] (acc. to ISO13136)	PMB10A-P157
PATHfinder - Detection of E.coli O:26 [wzx] (acc. to ISO13136)	PMB10A-P26
PATHfinder - Detection of foodborne E.coli O:45 [wzx]	PMB10A-P45

Product List	50 Tests
PATHfinder - Detection of E.coli STEC (eae) (acc. to ISO13136)	PMB10A-VE-50
PATHfinder - Detection of E.coli STEC (stx1) (acc. to ISO13136)	PMB10A-V1-50
PATHfinder - Detection of E.coli STEC (stx2) (acc. to ISO13136)	PMB10A-V2-50
PATHfinder - Detection of E.coli STEC (stx2f) (acc. to EURL)	PMB10A-V2F-50
PATHfinder - Detection of STEC stx1/stx2 & eae/IAC (ISO13136)	PMB10A-50
PATHfinder - Detection of STEC acc. to ISO13136 - [stx1+stx2]/[eae]	PMB10M-50
PATHfinder - Detection of foodborne Giardia	PMB41A-50
PATHfinder - Guaiacol producing Alicyclobacilli and A.Acidocaldarius	PMB48A-G-50
PATHfinder - Detection of Legionella pneumophila (acc. to ISO12869)	PMB15A-50
PATHfinder - Detection of Legionella pneumophila Serogroup 1	PMB15D-SG1-50
PATHfinder - Detection of Legionella spp. (acc. to ISO12869)	PMB18A-50
PATHfinder - LegionellaSpp/L.pneumophila/L.pneumophilaSG1 (ISO12869)	PMB15D-SG-50
PATHfinder - Detection of Listeria spp. and Listeria monocytogenes	PMB23A-50
PATHfinder - Detection of foodborne Listeria monocytogenes	PMB02A-50
PATHfinder - Detection of foodborne Listeria Spp	PMB03A-50
PATHfinder - Detection of foodborne Pseudomonas aeruginosa	PMB05A-50
PATHfinder - Detection of foodborne Salmonella Spp	PMB01A-50
PATHfinder - Salmonella spp./L.monocytogenes/Listeria spp.	PMB68A-50
PATHfinder - Detection of foodborne Shigella spp	PMB61A-50
PATHfinder - Discrimination Shigella and E.coli colony isolates	PMB58A-50
PATHfinder - Detection of foodborne Staphylococcus aureus	PMB11A-50
PATHfinder - Thermotolerant Campylobacters (jejunii/coli/lari)	PMB04A-50
PATHfinder - Salmonella spp./L.monocytogenes and [stx1+stx2]/[eae]	PMB64A-50
PATHfinder - Salmonella spp. and Listeria monocytogenes	PMB64A-1-50
PATHfinder - Salmonella spp. + L. mono and VTEC [stx1+stx2]/[eae]	PMB64A-2-50
PATHfinder - Detection of Salmonella spp. + L.monocytogenes	PMB64A-3-50
PATHfinder - Detection of foodborne Vibrio cholerae	PMB13A-C-50
PATHfinder - Detection of foodborne Vibrio parahaemolyticus	PMB13A-P-50
PATHfinder - Vibrio parahaemolyticus and virulence factors tdh/trh	PMB17A-50
PATHfinder - Pathogenic Vibrio-parahaemolyticus/vulnificus/cholerae	PMB13A-M-50
PATHfinder - Detection of foodborne Vibrio vulnificus	PMB13A-V-50
PATHfinder - Detection of Yersinia Enterocolitica (acc. to ISO18867)	PMB07A-50
PATHfinder - Yersinia pseudotuberculosis (acc. to ISO18867)	PMB60A-50

Product List	4 x 50 Tests
PATHfinder - Identification C.botulinum [A,B,E,F](acc. to ISO-17919)	PMB67A-ID

SureXtra Product List	50 Vials
PATHfinder SureXtra - Process control for PCR based Salmonella spp.	PMB01X
PATHfinder SureXtra - Process control for PCR based Listeria spp and monocytogenes	PMB02X
PATHfinder SureXtra - Process control for PCR based Bacillus cereus	PMB09X
PATHfinder SureXtra - Process control for PCR based E.coli VTEC stx2f	PMB10X-F
PATHfinder SureXtra - Process control for PCR based E.coli VTEC (stx1+stx2+eae)	PMB10X-M
PATHfinder SureXtra - Process control for PCR based E.coli O:103	PMB10X-P103
PATHfinder SureXtra - Process control for PCR based E.coli O:104	PMB10X-P104
PATHfinder SureXtra - Process control for PCR based E.coli O:111	PMB10X-P111
PATHfinder SureXtra - Process control for PCR based E.coli O:121	PMB10X-P121
PATHfinder SureXtra - Process control for PCR based E.coli O:145	PMB10X-P145
PATHfinder SureXtra - Process control for PCR based E.coli O:157	PMB10X-P157
PATHfinder SureXtra - Process control for PCR based E.coli O:26	PMB10X-P26
PATHfinder SureXtra - Process control for PCR based E.coli O:45	PMB10X-P45
PATHfinder SureXtra - Process control for PCR based Staphylococcus aureus	PMB11X
PATHfinder SureXtra - Process control for PCR based Clostridium botulinum	PMB44X
PATHfinder SureXtra - Process control for PCR based Alicyclobacillus acidocaldarius	PMB48X-AC
PATHfinder SureXtra - Process control for PCR based Alicyclobacillus acidoterrestris	PMB48X-AT
PATHfinder SureXtra - Process control for PCR based C. botulinum (amplicon ISO-17919)	PMB67X



MODfinder

GMO Kits

MODfinder is the product line developed by Generon with premium quality molecular biology reagents to provide the customer a "turn-key" solution for the detection and quantification of a wide selection of specific and generic GMO events according to EU norms. Using MODfinder products along with an appropriate DNA extraction method enables to test the presence of GMOs in the most diverse matrices: Bulk/Raw Ingredients, Semi-finished products, Finished products.

The development and application of reliable detection and quantitative analytical methods was essential for the implementation of the labelling rules. Real-time PCR is the gold standard in GMO analysis according to ISO norms. The molecular analysis required to comply with the current European Union GMO legislation consist of three distinct steps: **Detection, Identification, Quantification**

MODfinder Screening Assays collection includes:

- **Real-Time assays** for all the relevant screening target (including gene and construct specific assays) and allows their detection in single-plex or multiplex. Assays were developed following indications published in the JRC "Compendium of reference methods for GMO analysis" or in other peer reviewed scientific literature.
- **Plant/Eukaryotic generic marker** to determine the overall amplificability of the extracted DNA when ingredient are not known.

Each assay box contains target specific reagents (primers and probes), Mastermix, negative control and positive control.

Product List	50 Tests
MODfinder - GMO detection kit - Marker p35S CaMV	PGE01A-50
MODfinder - Quantitative GMO detection kit - Marker p35S CaMV	PGE01Q-50
MODfinder - GMO detection kit - Marker t35S CaMV	PGE03A-50
MODfinder - GMO detection kit - Marker tNOS	PGE04A-50
MODfinder - Quantitative GMO detection kit - Marker tNOS	PGE04Q-50
MODfinder - MultiSCREEN 2-plex kit for the detection of GM markers p35S/tNOS	PGE05A-50
MODfinder - GMO detection kit - Marker nptII	PGE07A-50
MODfinder - GMO detection kit - Marker pat	PGE14A-50
MODfinder - GMO detection kit - Marker bar	PGE15A-50
MODfinder - GMO detection kit - Marker cp4-epsps	PGE16A-50
MODfinder - GMO detection kit - Marker p34S FMV	PGE17A-50
MODfinder - GMO detection kit - Marker cry1Ab/Ac	PGE25A-50
MODfinder - 4-plex kit for GM markers p35S/tNOS/pFMV with internal control	PGE26A-C-50
MODfinder - GMO detection kit - Marker pNOS	PGE27A-50
MODfinder - 3-plex kit for the detection of GM markers nptII/pat/cp4-epsps	PGE32A-50
MODfinder - 4-plex kit for the detection of GM markers p35S/tNOS/pFMV/bar	PGE34A-50



MODfinder - 4-plex kit for detection of GM markers nptII/pat/cp4-epsps/pNOS	PGE35A-50
MODfinder - GMO detection kit - Marker tE9	PGE37A-50
MODfinder - 2-plex for detection of CaMV/FMV virions	PGE39A-50
MODfinder - 2-plex kit for the detection of GM markers pFMV/nptII	PGE40A-50
MODfinder - 4-plex kit for detection of GM markers cp4-epsps/pat/bar/nptII	PGE42A-50
MODfinder - 4-plex kit for the detection of GM markers p35S/tNOS/pFMV/t35S	PGE47A-50
MODfinder - 2-plex kit for the detection of GM markers t35S/pat+bar	PGE51A-50
MODfinder - 2-plex kit for the detection of GM markers t35S/pFMV	PGE52A-50
MODfinder - 2-plex kit for the detection of GM markers cp4-epsps/pat	PGE53A-50
MODfinder - 2-plex kit for the detection of GM markers nptII/bar	PGE54A-50

MODfinder Identification Assays

MODfinder Identification Assay were developed to detect the only unique signature of a transformation event that is the junction at the integration locus between the recipient genome and the inserted DNA. The identification of the GMO contaminating the matrix under investigation is a fundamental step when considering the labelling rules enforced in Europe.

Quantitation of GMO contamination must be in fact relative to something. In European legislation it refers to the presence w/w relative to the ingredient and not to the whole product. Therefore knowing exactly which is the event to quantify is crucial.

Product List	50 Tests
MODfinder - GMO detection kit - Reference Genes Corn/Soy/Rapeseed/Cotton	PGE33A-50
MODfinder - 2-plex GMO detection kit - Reference genes Corn/Soy	PGE43A-50
MODfinder - 3-plex GMO detection kit - Reference genes Rice/Sugar Beet/Wheat	PGE48A-50
MODfinder - 4-plex GMO detection kit - Reference genes Flax/Soy/Rapeseed/Cotton	PGE49A-50
MODfinder - 2-plex GMO detection kit - Reference genes Rapeseed/Cotton	PGE50A-50
MODfinder - GMO detection kit - Universal eukaryotic reference gene (28S)	PGE06A-50
MODfinder - GMO detection kit - Soy reference gene	PGE09A-50
MODfinder - GMO detection kit - Flax reference gene	PGE12A-50
MODfinder - GMO detection kit - Rice reference gene	PGE13A-50
MODfinder - GMO detection kit - Rapeseed (Canola) reference gene	PGE19A-50
MODfinder - GMO detection kit - Potato reference gene	PGE20A-50
MODfinder - GMO detection kit - Cotton reference gene	PGE21A-50
MODfinder - GMO detection kit - Sugar Beet reference gene	PGE22A-50
MODfinder - GMO detection kit - Corn reference gene	PGE24A-50
MODfinder - GMO detection kit - Wheat reference gene	PGE29A-50
MODfinder - GMO detection kit - Papaya reference gene	PGE31A-50

MODIfinder Quantitative kits

MODIfinder Quantitative Assays were developed to quantify the presence of a GMO in a sample according to EU indications. For quantitation, the copy number of the GM PCR target relative to genome copies of the corresponding species is important because the principle of quantitation of GM content is to compare the relative ratio of these two. Usually, a PCR targeting a species-specific single copy gene is used to determine the amount of the species derived DNA, for example the soybean lectin gene for soya-derived DNA.

Using Real-Time PCR Quantitation can be done by comparison with a standard curve obtained by using DNA extracts from reference materials. In standard curve quantitation, the final quantitative estimate is based on comparing estimated quantity of GM to estimated quantity of reference TAXA. All MODIfinder Quantitative Assays allows for qualitative DNA detection with a detection limit down to 0.01% w/w depending on matrix and DNA preparation. Each assay contains event specific mix (primers and probe), taxon specific mix (primers and probe), Mastermix, standard solutions at 5 scalar target GM concentration, taxon DNA standard solutions at 5 scalar concentration and negative control. Standard solutions are obtained extracting lot traceable reference materials using Ion-Force DNA Extraction kit.

Canola	50 Tests
MODIfinder - GM Canola MS8 detection kit (UID ACS-BN005-8)	PGZ01A-50
MODIfinder - GM Canola MS8 quantification Kit (UID ACS-BN005-8)	PGZ01Q-50
MODIfinder - GM Canola RF3 detection kit (UID ACS-BN003-6)	PGZ02A-50
MODIfinder - GM Canola RF3 quantification Kit (UID ACS-BN003-6)	PGZ02Q-50
MODIfinder - GM Canola RT73 detection kit (UID MON-00073-7)	PGZ03A-50
MODIfinder - GM Canola RT73 quantification Kit (UID MON-00073-7)	PGZ03Q-50
MODIfinder - GM Canola T45 detection kit (UID ACS-BN008-2)	PGZ04A-50
MODIfinder - GM Canola T45 quantification Kit (UID ACS-BN008-2)	PGZ04Q-50
MODIfinder - GM Canola TOPAS 19 2 detection kit (UID ACS-BN007-1)	PGZ05A-50
MODIfinder - GM Canola TOPAS 19 2 quantification Kit (UID ACS-BN007-1)	PGZ05Q-50
MODIfinder - GM Canola RF1 detection kit (UID ACS-BN001-4)	PGZ06A-50
MODIfinder - GM Canola RF1 quantification Kit (UID ACS-BN001-4)	PGZ06Q-50
MODIfinder - GM Canola RF2 detection kit (UID ACS-BN002-5)	PGZ07A-50
MODIfinder - GM Canola RF2 quantification Kit (UID ACS-BN002-5)	PGZ07Q-50
MODIfinder - GM Canola OXY-235 detection kit (UID ACS-BN011-5)	PGZ08A-50
MODIfinder - GM Canola MS1 detection kit (UID ACS-BN004-7)	PGZ09A-50
MODIfinder - GM Canola MS1 quantification Kit (UID ACS-BN004-7)	PGZ09Q-50
MODIfinder - GM Canola DP073496 detection kit (UID DP-073496-4)	PGZ10A-50
MODIfinder - GM Canola MON88302 detection kit (UID MON-88302-9)	PGZ11A-50
MODIfinder - GM Canola MON88302 quantification Kit (UID MON-88302-9)	PGZ11Q-50
MODIfinder - 3-plex kit for the detection of GM rapeseed Ms8/T45/Rf3	PGZ31A-50



Corn	50 Tests
MODIfinder - GM Corn Bt176 detection kit (UID SYN-EV176-9)	PGC01A-50
MODIfinder - GM Corn MON810 detection kit (UID MON-00810-6)	PGC02A-50
MODIfinder - GM Corn MON810 quantification kit (UID MON-00810-6)	PGC02Q-50
MODIfinder - GM Corn T25 detection kit (UID ACS-ZM003-2)	PGC03A-50
MODIfinder - GM Corn T25 quantification Kit (UID ACS-ZM003-2)	PGC03Q-50
MODIfinder - GM Corn BT11 detection kit (UID SYN-BT011-1)	PGC04A-50
MODIfinder - GM Corn BT11 quantification Kit (UID SYN-BT011-1)	PGC04Q-50
MODIfinder - GM Corn NK603 detection kit (UID MON-00603-6)	PGC05A-50
MODIfinder - GM Corn NK603 quantification Kit (UID MON-00603-6)	PGC05Q-50
MODIfinder - GM Corn CBH-351 detection kit (UID ACS-ZM004-3)	PGC06A-50
MODIfinder - GM Corn GA21 detection kit (UID MON-00021-9)	PGC07A-50
MODIfinder - GM Corn GA21 quantification Kit (UID MON-00021-9)	PGC07Q-50
MODIfinder - GM Corn DAS1507 detection kit (UID DAS-01507-1)	PGC08A-50
MODIfinder - GM Corn DAS1507 quantification Kit (UID DAS-01507-1)	PGC08Q-50
MODIfinder - GM Corn MON863 detection kit (UID MON-00863-5)	PGC09A-50
MODIfinder - GM Corn MIR604 detection kit (UID SYN-IR604-5)	PGC10A-50
MODIfinder - GM Corn MIR604 quantification Kit (UID SYN-IR604-5)	PGC10Q-50
MODIfinder - GM Corn DAS59122 detection kit (UID DAS-59122-7)	PGC11A-50
MODIfinder - GM Corn DAS59122 quantification Kit (UID DAS-59122-7)	PGC11Q-50
MODIfinder - GM Corn DBT418 detection kit (UID DKB-89614-9)	PGC12A-50
MODIfinder - GM Corn 98140 detection kit (UID DP-098140-6)	PGC13A-50
MODIfinder - GM Corn MIR162 detection kit (UID SYN-IR162-4)	PGC14A-50
MODIfinder - GM Corn MIR162 quantification Kit (UID SYN-IR162-4)	PGC14Q-50
MODIfinder - GM Corn LY038 detection kit (UID REN-00038-3)	PGC16A-50
MODIfinder - GM Corn Event 3272 detection kit (UID SYN-E3272-5)	PGC17A-50
MODIfinder - GM Corn MON88017 detection kit (UID MON-88017-3)	PGC19A-50
MODIfinder - GM Corn MON88017 quantification Kit (UID MON-88017-3)	PGC19Q-50
MODIfinder - GM Corn MON89034 detection kit (UID MON-89034-3)	PGC20A-50
MODIfinder - GM Corn MON89034 quantification Kit (UID MON-89034-3)	PGC20Q-50
MODIfinder - GM Corn DAS40278 detection kit (UID DAS-40278-9)	PGC22A-50
MODIfinder - GM Corn DAS40278 quantification Kit (UID DAS-40278-9)	PGC22Q-50
MODIfinder - GM Corn MON87460 detection kit (UID MON-87460-4)	PGC23A-50
MODIfinder - GM Corn MON87460 quantification Kit (UID MON-87460-4)	PGC23Q-50



Corn	50 Tests
MODfinder - GM Corn Event 5307 detection kit (UID SYN-05307-1)	PGC24A-50
MODfinder - GM Corn Event 5307 quantification Kit (UID SYN-05307-1)	PGC24Q-50
MODfinder - GM Corn MON87427 detection kit (UID MON-87427-7)	PGC25A-50
MODfinder - GM Corn MON87427 quantification Kit (UID MON-87427-7)	PGC25Q-50
MODfinder - GM Corn VCO-01981-5 detection kit (UID VCO-01981-5)	PGC26A-50
MODfinder - GM Corn MON87411 detection kit (UID MON-87411-9)	PGC27A-50
MODfinder - GM Corn MON87411 quantification Kit (UID MON-87411-9)	PGC27Q-50
MODfinder - 2-plex kit for the detection of GM Corn DAS40278/LY038	PGC28A-50
MODfinder - GM Corn 4114 detection kit (UID DP-004114-3)	PGC29A-50
MODfinder - GM Corn 4114 quantification Kit (UID DP-004114-3)	PGC29Q-50
MODfinder - GM Corn MZHG0JG detection kit (UID SYN-000JG-2)	PGC31A-50
MODfinder - GM Corn MZHG0JG quantification Kit (UID SYN-000JG-2)	PGC31Q-50
MODfinder - GM Corn MON87403 detection kit (UID MON-87403-1)	PGC32A-50
MODfinder - GM Corn MON87403 quantification Kit (UID MON-87403-1)	PGC32Q-50
MODfinder - 2-plex kit for the detection of GM Corn 4114/5307	PGC33A-50
MODfinder - 2-plex kit for the detection of GM Corn Bt11/DAS1507	PGC34A-50
MODfinder - 2-plex kit for the detection of GM Corn GA21/DAS59122	PGC35A-50
MODfinder - 2-plex kit for the detection of GM Corn MIR162/MIR604	PGC36A-50
MODfinder - 2-plex kit for the detection of GM Corn MON810/MON87403	PGC37A-50
MODfinder - 2-plex kit for the detection of GM Corn MON87411/MON87427	PGC38A-50
MODfinder - 2-plex kit for the detection of GM Corn MON87460/MON88017	PGC39A-50
MODfinder - 2-plex kit for the detection of GM Corn MON89034/NK603	PGC40A-50
MODfinder - 2-plex kit for the detection of GM Corn T25/MZHG0JG	PGC41A-50
Cotton	50 Tests
MODfinder - GM Cotton MON531 detection kit (UID MON-00531-6)	PGT01A-50
MODfinder - GM Cotton MON531 quantification Kit (UID MON-00531-6)	PGT01Q-50
MODfinder - GM Cotton MON1445 detection kit (UID MON-01445-2)	PGT02A-50
MODfinder - GM Cotton MON1445 quantification Kit (UID MON-01445-2)	PGT02Q-50
MODfinder - GM Cotton 281-24-236 detection kit (UID DAS-24236-5)	PGT03A-50
MODfinder - GM Cotton 281-24-236 quantification Kit (UID DAS-24236-5)	PGT03Q-50
MODfinder - GM Cotton T304-40 detection kit (UID BCS-GH004-7)	PGT10A-50
MODfinder - GM Cotton T304-40 quantification Kit (UID BCS-GH004-7)	PGT10Q-50



Cotton	50 Tests
MODfinder - GM Cotton 3006-210-23 detection kit (UID DAS-21023-5)	PGT04A-50
MODfinder - GM Cotton 3006-210-23 quantification Kit (UID DAS-21023-5)	PGT04Q-50
MODfinder - GM Cotton LL25 detection kit (UID ACS-GH001-3)	PGT05A-50
MODfinder - GM Cotton LL25 quantification Kit (UID ACS-GH001-3)	PGT05Q-50
MODfinder - GM Cotton MON15985 detection kit (UID MON-15985-7)	PGT06A-50
MODfinder - GM Cotton MON15985 quantification Kit (UID MON-15985-7)	PGT06Q-50
MODfinder - GM Cotton GHB614 detection kit (UID BCS-GH002-5)	PGT07A-50
MODfinder - GM Cotton GHB614 quantification Kit (UID BCS-GH002-5)	PGT07Q-50
MODfinder - GM Cotton MON88913 detection kit (UID MON-88913-8)	PGT08A-50
MODfinder - GM Cotton MON88913 quantification Kit (UID MON-88913-8)	PGT08Q-50
MODfinder - GM Cotton GHB119 detection kit (UID BCS-GH005-8)	PGT09A-50
MODfinder - GM Cotton GHB119 quantification Kit (UID BCS-GH005-8)	PGT09Q-50
MODfinder - GM Cotton T304-40 detection kit (UID BCS-GH004-7)	PGT10A-50
MODfinder - GM Cotton T304-40 quantification Kit (UID BCS-GH004-7)	PGT10Q-50
Papaya	50 Tests
MODfinder - GM Papaya Huanhong N1 detection kit (UID Not Available)	PGY01A-50
MODfinder - GM Papaya 55-1 detection kit (UID CUH-CP551-8)	PGY02A-50
Rice	50 Tests
MODfinder - GM Rice LL601 detection kit (UID BCS-OS003-7)	PGR01A-50
MODfinder - GM Rice LL62 detection kit (UID ACS-OS002-5)	PGR02A-50
MODfinder - GM Rice BT63 detection kit (UID HZU-HH001-9)	PGR03A-50
Soybean	50 Tests
MODfinder - GM Soy A2704-12 detection kit (UID ACS-GM005-3)	PGS01A-50
MODfinder - GM Soy A2704-12 quantification Kit (UID ACS-GM005-3)	PGS01Q-50
MODfinder - GM Soy GTS 40-3-2 (RuR) detection kit (UID MON-04032-6)	PGS02A-50
MODfinder - GM Soy GTS 40-3-2 (RuR) quantification Kit (UID MON-04032-6)	PGS02Q-50
MODfinder - GM Soy A5547-127 detection kit (UID ACS-GM006-4)	PGS03A-50
MODfinder - GM Soy A5547-127 quantification Kit (UID ACS-GM006-4)	PGS03Q-50
MODfinder - GM Soy MON89788 detection kit (UID MON-89788-1)	PGS04A-50
MODfinder - GM Soy MON89788 quantification Kit (UID MON-89788-1)	PGS04Q-50
MODfinder - GM Soy DP305423 detection kit (UID DP-305423-1)	PGS05A-50
MODfinder - GM Soy DP305423 quantification Kit (UID DP-305423-1)	PGS05Q-50
MODfinder - GM Soy DP356043 detection kit (UID DP-356043-5)	PGS06A-50



Soybean	50 Tests
MODfinder - GM Soy DP356043 quantification Kit (UID DP-356043-5)	PGS06Q-50
MODfinder - GM Soy MON87701 detection kit (UID MON-87701-2)	PGS07A-50
MODfinder - GM Soy MON87701 quantification Kit (UID MON-87701-2)	PGS07Q-50
MODfinder - GM Soy CV127 detection kit (UID BPS-CV127-9)	PGS08A-50
MODfinder - GM Soy CV127 quantification Kit (UID BPS-CV127-9)	PGS08Q-50
MODfinder - GM Soy MON87705 detection kit (UID MON-87705-6)	PGS09A-50
MODfinder - GM Soy MON87705 quantification Kit (UID MON-87705-6)	PGS09Q-50
MODfinder - GM Soy MON87769 detection kit (UID MON-87769-7)	PGS10A-50
MODfinder - GM Soy MON87769 quantification Kit (UID MON-87769-7)	PGS10Q-50
MODfinder - GM Soy FG72 detection kit (UID MST-FG072-2)	PGS11A-50
MODfinder - GM Soy FG72 quantification Kit (UID MST-FG072-2)	PGS11Q-50
MODfinder - GM Soy DAS44406 detection kit (UID DAS-44406-6)	PGS12A-50
MODfinder - GM Soy DAS44406 quantification Kit (UID DAS-44406-6)	PGS12Q-50
MODfinder - GM Soy DAS68416 detection kit (UID DAS-68416-4)	PGS13A-50
MODfinder - GM Soy DAS68416 quantification Kit (UID DAS-68416-4)	PGS13Q-50
MODfinder - GM Soy DAS81419 detection kit (UID DAS-81419-2)	PGS14A-50
MODfinder - GM Soy MON87708 detection kit (UID MON-87708-9)	PGS15A-50
MODfinder - GM Soy MON87708 quantification Kit (UID MON-87708-9)	PGS15Q-50
MODfinder - 3-plex for the detection of GM Soy CV127/DP305423/MON87701	PGS16A-50
MODfinder - 3-plex for the detection of GM Soy A2704/A5547/DP356043	PGS18A-50
MODfinder - GM Soy MON87751 detection kit (UID MON-87751-7)	PGS19A-50
MODfinder - GM Soy MON87751 quantification Kit (UID MON-87751-7)	PGS19Q-50
MODfinder - GM Soy SYHT0H2 detection kit (UID SYN-000H2-5)	PGS20A-50
MODfinder - GM Soy CV127+MON87701/DP305423+DP356043/MON87708+MON87769	PGS21A-50
MODfinder - 2-plex for the detection of GM Soy MON87754/MON87751	PGS23A-50
MODfinder - 2-plex for the detection of GM Soy A2704-12/A5547-127	PGS24A-50
MODfinder - 2-plex for the detection of GM Soy CV127/MON87769	PGS25A-50
MODfinder - 2-plex for the detection of GM Soy DAS68416/DAS44406	PGS26A-50
MODfinder - 2-plex for the detection of GM Soy DP305423/DP356043	PGS27A-50
MODfinder - 2-plex for the detection of GM Soy GTS 40-3-2/FG72	PGS28A-50
MODfinder - 2-plex for the detection of GM Soy MON87705/MON89788	PGS29A-50
MODfinder - 2-plex for the detection of GM Soy MON87708/MON87701	PGS30A-50
MODfinder - 2-plex for detection GM Soy CV127/DP305423/MON87751/MON87708	PGS31A-50
MODfinder - 4-plex for detection GM Soy MON87701/DP356043/MON87754/MON87769	PGS32A-50

Sugar beet	50 Tests
MODfinder - GM Sugar beet RURH7-1 detection kit (UID KM-000H71-4)	PGB01A-50
MODfinder - GM Sugar beet RURH7-1 quantification Kit (UID KM-000H71-4)	PGB01Q-50

MODfinder AquAdvantage Salmon

Now salmon is the first genetically modified animal to be approved for human consumption although only in a few countries. The MODfinder AquAdvantage Salmon Assay detects the genetic modification on the growth hormone-regulating gene of this genetically modified salmon.

Salmon	50 Tests
MODfinder - GM Salmon AquAdvantage detection kit	PGX01A-50

MODfinder SemiQ Controls

MODfinder SemiQ Controls are purified DNA extracted from traceable reference materials at a defined concentration. When used as cut-off positive controls in GM detection experiments performed on matrices derived from single ingredients (e.g. soy grains, lecithin, corn, corn starch...) when unknown samples are normalized at the same DNA concentration, they allow for a convenient estimation of contamination level without the need of more expensive classical quantification experiments.

MODfinder semiQ controls are available in 120 µl vials at a standard concentration of 3 ng DNA/µl and a 0.2% GM contamination, custom concentrations and cut-off are available on demand.

Product List	120 µl 0,2% 3 ng/µl
MODfinder GM Sugar beet RURH7-1 (UID KM-000H71-4) quantified reference DNA	PGB01R
MODfinder GM Corn MON810 (UID MON-00810-6) quantified reference DNA	PGC02R
MODfinder GM Corn T25 (UID ACS-ZM003-2) quantified reference DNA	PGC03R
MODfinder GM Corn BT11 (UID SYN-BT011-1) quantified reference DNA	PGC04R
MODfinder GM Corn NK603 (UID MON-00603-6) quantified reference DNA	PGC05R
MODfinder GM Corn GA21 (UID MON-00021-9) quantified reference DNA	PGC07R
MODfinder GM Corn DAS1507 (UID DAS-01507-1) quantified reference DNA	PGC08R
MODfinder GM Corn MIR604 (UID SYN-IR604-5) quantified reference DNA	PGC10R
MODfinder GM Corn DAS59122 (UID DAS-59122-7) quantified reference DNA	PGC11R
MODfinder GM Corn MIR162 (UID SYN-IR162-4) quantified reference DNA	PGC14R
MODfinder GM Corn MON88017 (UID MON-88017-3) quantified reference DNA	PGC19R
MODfinder GM Corn MON89034 (UID MON-89034-3) quantified reference DNA	PGC20R
MODfinder GM Corn DAS40278 (UID DAS-40278-9) quantified reference DNA	PGC22R
MODfinder GM Corn MON87460 (UID MON-87460-4) quantified reference DNA	PGC23R
MODfinder GM Corn Event 5307 (UID SYN-05307-1) quantified reference DNA	PGC24R



MODfinder GM Corn MON87427 (UID MON-87427-7) quantified reference DNA	PGC25R
MODfinder GM Corn MON87411 (UID MON-87411-9) quantified reference DNA	PGC27R
MODfinder GM Corn 4114 (UID DP-004114-3) quantified reference DNA	PGC29R
MODfinder GM Corn MZHG0JG (UID SYN-000JG-2) quantified reference DNA	PGC31R
MODfinder GM Corn MON87403 (UID MON-87403-1) quantified reference DNA	PGC32R
MODfinder quantified GMO reference DNA - Marker pNOS	PGE27R
MODfinder quantified GMO reference DNA - Marker p35S CaMV	PGE01R
MODfinder quantified GMO reference DNA - Marker t35S CaMV	PGE03R
MODfinder quantified GMO reference DNA - Marker tNOS	PGE04R
MODfinder quantified GMO reference DNA - Marker p35S CaMV e tNOS	PGE05R
MODfinder quantified GMO reference DNA - Marker nptII	PGE07R
MODfinder quantified GMO reference DNA - Marker pat	PGE14R
MODfinder quantified GMO reference DNA - Marker bar	PGE15R
MODfinder quantified GMO reference DNA - Marker cp4-epsps	PGE16R
MODfinder quantified GMO reference DNA - Marker p34S FMV	PGE17R
MODfinder quantified GMO reference DNA - Marker cry1Ab/Ac	PGE25R
MODfinder quantified GMO reference DNA - Marker pNOS	PGE27R
MODfinder GM Soybean A2704-12 (UID ACS-GM005-3) quantified reference DNA	PGS01R
MODfinder GM Soybean GTS 40-3-2 (RuR) (UID MON-04032-6) quantified reference DNA	PGS02R
MODfinder GM Soybean A5547-127 (UID ACS-GM006-4) quantified reference DNA	PGS03R
MODfinder GM Soybean MON89788 (UID MON-89788-1) quantified reference DNA	PGS04R
MODfinder GM Soybean DP305423 (UID DP-305423-1) quantified reference DNA	PGS05R
MODfinder GM Soybean DP356043 (UID DP-356043-5) quantified reference DNA	PGS06R
MODfinder GM Soybean MON87701 (UID MON-87701-2) quantified reference DNA	PGS07R
MODfinder GM Soybean CV127 (UID BPS-CV127-9) quantified reference DNA	PGS08R
MODfinder GM Soybean MON87705 (UID MON-87705-6) quantified reference DNA	PGS09R
MODfinder GM Soybean MON87769 (UID MON-87769-7) quantified reference DNA	PGS10R
MODfinder GM Soybean FG72 (UID MST-FG072-2) quantified reference DNA	PGS11R
MODfinder GM Soybean DAS44406 (UID DAS-44406-6) quantified reference DNA	PGS12R
MODfinder GM Soybean DAS68416 (UID DAS-68416-4) quantified reference DNA	PGS13R
MODfinder GM Soybean MON87708 (UID MON-87708-9) quantified reference DNA	PGS15R
MODfinder GM Soybean MON87751 (UID MON-87751-7) quantified reference DNA	PGS19R
MODfinder GM Cotton MON531 (UID MON-00531-6) quantified reference DNA	PGT01R
MODfinder GM Cotton MON1445 (UID MON-01445-2) quantified reference DNA	PGT02R



Product List	120 µl 0,2% 3 ng/µl
MODIfinder GM Cotton 281-24-236 (UID DAS-24236-5) quantified reference DNA	PGT03R
MODIfinder GM Cotton 3006-210-23 (UID DAS-21023-5) quantified reference DNA	PGT04R
MODIfinder GM Cotton LL25 (UID ACS-GH001-3) quantified reference DNA	PGT05R
MODIfinder GM Cotton MON15985 (UID MON-15985-7) quantified reference DNA	PGT06R
MODIfinder GM Cotton GHB614 (UID BCS-GH002-5) quantified reference DNA	PGT07R
MODIfinder GM Cotton MON88913 (UID MON-88913-8) quantified reference DNA	PGT08R
MODIfinder GM Cotton GHB119 (UID BCS-GH005-8) quantified reference DNA	PGT09R
MODIfinder GM Cotton T304-40 (UID BCS-GH004-7) quantified reference DNA	PGT10R
MODIfinder GM Canola MS8 (UID ACS-BN005-8) quantified reference DNA	PGZ01R
MODIfinder GM Canola RF3 (UID ACS-BN003-6) quantified reference DNA	PGZ02R
MODIfinder GM Canola RT73 (UID MON-00073-7) quantified reference DNA	PGZ03R
MODIfinder GM Canola T45 (UID ACS-BN008-2) quantified reference DNA	PGZ04R
MODIfinder GM Canola TOPAS 19 2 (UID ACS-BN007-1) quantified reference DNA	PGZ05R
MODIfinder GM Canola RF1 (UID ACS-BN001-4) quantified reference DNA	PGZ06R
MODIfinder GM Canola RF2 (UID ACS-BN002-5) quantified reference DNA	PGZ07R
MODIfinder GM Canola MS1 (UID ACS-BN004-7) quantified reference DNA	PGZ09R
MODIfinder GM Canola MON88302 (UID MON-88302-9) quantified reference DNA	PGZ11R



SPECIALfinder

Allergen Kits

DNA is a very stable molecule being almost unaffected by food processing whereas proteins are easily denatured hampering the detection through antibody based techniques.

SPECIALfinder Real-Time PCR Assays detect DNA sequences indicative of the presence of allergenic species. Each assay box contains target specific reagents (primers and probes), Mastermix, negative control and positive control. DNA extraction and purification are critical steps in a PCR experiment as the efficiency and sensitivity of a PCR depend on the purity and yield of the extracted DNA. These parameters are deeply impacted by the matrix.

Tests developed and validated according to UNI-EN 15634-1: 2009 guidelines to detect the target allergen DNA with high specificity and sensitivity.

Absence of cross-reactivity was tested towards a large number of food ingredients to avoid false positives. All the tests are made using prime-quality molecular biology grade reagents.

SPECIALfinder DigiCount

Total DNA extracted from allergens using Generon ION Force Fast DNA Extractor with SPECIALfinder Assays target sequences content quantified using Droplet Digital PCR technology.

Product List	>120 000 GUs in 120 µl
SPECIALfinder DigiCount ddPCR quantified standard DNA - Soy	PAV01R
SPECIALfinder DigiCount ddPCR quantified standard DNA - Peanut	PAV02R
SPECIALfinder DigiCount ddPCR quantified standard DNA - Hazelnut	PAV03R
SPECIALfinder DigiCount ddPCR quantified standard DNA - Walnut	PAV06R
SPECIALfinder DigiCount ddPCR quantified standard DNA - Pistachio	PAV07R
SPECIALfinder DigiCount ddPCR quantified standard DNA - Cashew	PAV08R
SPECIALfinder DigiCount ddPCR quantified standard DNA - Rye	PAV10R
SPECIALfinder DigiCount ddPCR quantified standard DNA - Sesame	PAV13R
SPECIALfinder DigiCount ddPCR quantified standard DNA - Celery	PAV15R
SPECIALfinder DigiCount ddPCR quantified standard DNA - Brazilian nut	PAV16R

SPECIALfinder MC assays «NEW»

SPECIALfinder MC is the new product line developed by Generon. This real-time PCR assay was developed at Generon to maximize the sensitivity of allergen detection by taking advantage of higher DNA copies allergen-specific available into each cell of the allergen.

The result of this improvement is on augmented chance of rapid detection and identification of allergens in environmental swabs and in various complex food/feed matrices (after on appropriate DNA extraction).

Product List	50 Tests
SPECIALfinder Barley food allergen detection kit	PAV25A-50
SPECIALfinder Buckwheat food allergen detection kit	PAV24A-50
SPECIALfinder Celery food allergen detection kit (acc. to DIN CEN/TS 15634-2)	PAV15A-50
SPECIALfinder Gluten food allergen detection kit	PAV17A-50
SPECIALfinder Hazelnut food allergen detection kit (acc. to DIN CEN/TS 15634-3)	PAV03CEN-50
SPECIALfinder MC Almond food allergen detection kit	PAV09M-50
SPECIALfinder MC Brazil nut food allergen detection kit	PAV16M-50
SPECIALfinder MC Cashew food allergen detection kit	PAV08M-50
SPECIALfinder MC Celery food allergen detection kit	PAV15M-50
SPECIALfinder MC Crustaceans food allergen detection kit	PAV19A-50
SPECIALfinder MC Fish food allergen detection kit	PAV20A-50
SPECIALfinder MC Hazelnut food allergen detection kit	PAV03M-50
SPECIALfinder MC Lupin food allergen detection kit	PAV18M-50
SPECIALfinder MC Macadamia Nut food allergen detection kit	PAV21M-50
SPECIALfinder MC Mollusks food allergen detection kit	PAV22M-50
SPECIALfinder MC Mustard food allergen detection kit	PAV14M-50
SPECIALfinder MC Peanut food allergen detection kit	PAV02M-50
SPECIALfinder MC Pecan Nut food allergen detection kit	PAV05M-50
SPECIALfinder MC Pine Nut food allergen detection kit	PAV23M-50
SPECIALfinder MC Pistachio food allergen detection kit	PAV07M-50
SPECIALfinder MC Sesame food allergen detection kit	PAV13M-50
SPECIALfinder MC Soy food allergen detection kit	PAV01M-50
SPECIALfinder MC Tree Nuts and Peanut food allergen detection kit	PAV26M-50
SPECIALfinder Peanut food allergen detection kit (acc. to DIN CEN/TS 15634-4)	PAV02CEN-50
SPECIALfinder Rye food allergen detection kit	PAV10A-50
SPECIALfinder MC Walnut food allergen detection kit	PAV06M-50
SPECIALfinder Oats food allergen detection kit	PAV11A-50

SPECIALfinder SpyX

Powdered allergens dispersed in corn flour at 1000 ppm that can be used as analytical process and extraction controls with both molecular and immunochemical methods.

Product List	1000 ppm
SPECIALfinder SpyX matrix reference material - Negative matrix	PAV00X
SPECIALfinder SpyX matrix reference material - Soya	PAV01X
SPECIALfinder SpyX matrix reference material - Peanut	PAV02X
SPECIALfinder SpyX matrix reference material - Hazelnut	PAV03X
SPECIALfinder SpyX matrix reference material - Wheat	PAV04X
SPECIALfinder SpyX matrix reference material - Pecan nut	PAV05X
SPECIALfinder SpyX matrix reference material - Walnut	PAV06X
SPECIALfinder SpyX matrix reference material - Pistachio	PAV07X
SPECIALfinder SpyX matrix reference material - Cashew	PAV08X
SPECIALfinder SpyX matrix reference material - Almond	PAV09X
SPECIALfinder SpyX matrix reference material - Rye	PAV10X
SPECIALfinder SpyX matrix reference material - Oats	PAV11X
SPECIALfinder SpyX matrix reference material - Barley	PAV12X
SPECIALfinder SpyX matrix reference material - Sesame	PAV13X
SPECIALfinder SpyX matrix reference material - Mustard	PAV14X
SPECIALfinder SpyX matrix reference material - Celery	PAV15X
SPECIALfinder SpyX matrix reference material - Brazil nut	PAV16X
SPECIALfinder SpyX matrix reference material - Lupine	PAV18X
SPECIALfinder SpyX matrix reference material - Crustaceans	PAV19X
SPECIALfinder SpyX matrix reference material - Fish	PAV20X
SPECIALfinder SpyX matrix reference material - Macadamia	PAV21X
SPECIALfinder SpyX matrix reference material - Mollusks	PAV22X
SPECIALfinder SpyX matrix reference material - Pine nuts	PAV23X
SPECIALfinder SpyX matrix reference material - Buckwheat	PAV24X



VERYfinder

Ingredient Authenticity Kits

Real-time PCR is widely accepted as a robust assay for the species identification and quantification of nucleic acid molecules due to its higher sensitivity and specificity, allowing for a precise determination of undeclared meat fractions in processed and mixed meat products.

VERYfinder is the product line developed by Generon with premium quality molecular biology reagents to provide the customer a turn-key solution for the detection and quantification of a wide selection of animal and plant nucleic acids.

Each Assay box contains target specific reagents (primers and probes), Mastermix, negative control, 2 vials of positive control (120 µl Target DNA at a concentration 8 ng/µl) extracted from raw material and heat treated material respectively.

Heat treatment performed in autoclave at 121°C for 20'.

Product List	50 Tests
VERYfinder food fraud prevention - PORK traces quantification	PMA01S-50
VERYfinder food fraud prevention - BOVINE traces quantification	PMA02S-50
VERYfinder food fraud prevention - TURKEY traces quantification	PMA03S-50
VERYfinder food fraud prevention - POULTRY traces quantification	PMA04S-50
VERYfinder food fraud prevention - SHEEP traces quantification	PMA05S-50
VERYfinder food fraud prevention - GOAT traces quantification	PMA06S-50
VERYfinder food fraud prevention - BUFFALO traces quantification	PMA07S-50
VERYfinder food fraud prevention - EQUINE traces quantification	PMA08S-50
VERYfinder food fraud prevention - EQUINE (acc. to EURL) traces quantification	PMA11S-50
VERYfinder food fraud prevention - RABBIT traces quantification	PMA12S-50
VERYfinder food fraud prevention - DUCK traces quantification	PMA13S-50
VERYfinder food fraud prevention - GOOSE traces quantification	PMA14S-50
VERYfinder food fraud prevention - CAT traces quantification	PMA96S-50
VERYfinder food fraud prevention - DOG traces quantification	PMA97S-50
VERYfinder food fraud prevention - MEAT fraction quantification	PMA99A-50
VERYfinder food fraud prevention - VEGETARIAN verification	PMA99S-50



VERYfinder Ingredient Authenticity Kits

VERYfinder Quantiscale

Each box includes 4 vials containing 120 µl of standard of target DNA (extracted from raw material) at scalar concentration (8 ng/µl; 800 pg/µl; 80 pg/µl; 8 pg/µl) dispersed in water. PMA99W can be customized but normally contains 50% each of the following DNA: Swine, Bovine DNA from each kind of meat and bovine DNA to bring total DNA amount to 1200 ng.

Product List	1 set
VERYfinder Quantiscale - DNA calibrants for PORK meat quantification via PCR	PMA01W
VERYfinder Quantiscale - DNA calibrants for BOVINE meat quantification via PCR	PMA02W
VERYfinder Quantiscale - DNA calibrants for TURKEY meat quantification via PCR	PMA03W
VERYfinder Quantiscale - DNA calibrants for POULTRY meat quantification via PCR	PMA04W
VERYfinder Quantiscale - DNA calibrants for SHEEP meat quantification via PCR	PMA05W
VERYfinder Quantiscale - DNA calibrants for GOAT meat quantification via PCR	PMA06W
VERYfinder Quantiscale - DNA calibrants for BUFFALO meat quantification via PCR	PMA07W
VERYfinder Quantiscale - DNA calibrants for EQUINE meat quantification via PCR	PMA08W
VERYfinder Quantiscale - DNA calibrants for RABBIT meat quantification via PCR	PMA12W
VERYfinder Quantiscale - DNA calibrants for DUCK meat quantification via PCR	PMA13W
VERYfinder Quantiscale - DNA calibrants for GOOSE meat quantification via PCR	PMA14W
VERYfinder Quantiscale - DNA calibrants for meat fraction quantification in food via PCR	PMA99W

VERYfinder Quanticust

Each box includes 1 set of customized DNA:

- Or 5 vials containing 120 µl of standard target DNA dispersed at various customizable concentration (e.g. 100%; 50%; 10%; 1%; 0,1%) in a background DNA extracted from on-demand matrices (e.g. swine/bovine DNA) at a total concentration of 8 ng/µl.
- Or 1 vials containing 300 µl of standard target DNA dispersed at customizable concentration (e.g. 1% equine in 99% bovine) at a total concentration of 8 ng/µl.

DNA can be extracted from raw material or heat treated material respectively (Heat treatment performed in autoclave at 121°C for 20') upon customer request.

Product List	1 set
VERYfinder QuantiCust - Reference material DNA extract PORK meat quantification	PMA01X
VERYfinder QuantiCust - Reference material DNA extract BOVINE meat quantification	PMA02X
VERYfinder QuantiCust - Reference material DNA extract TURKEY meat quantification	PMA03X
VERYfinder QuantiCust - Reference material DNA extract POULTRY meat quantification	PMA04X
VERYfinder QuantiCust - Reference material DNA extract SHEEP meat quantification	PMA05X
VERYfinder QuantiCust - Reference material DNA extract GOAT meat quantification	PMA06X



VERYfinder Ingredient Authenticity Kits

Product List	1 set
VERYfinder QuantiCust - Reference material DNA extract BUFFALO meat quantification	PMA07X
VERYfinder QuantiCust - Reference material DNA extract EQUINE meat quantification	PMA08X
VERYfinder QuantiCust - Reference material DNA extract RABBIT meat quantification	PMA12X
VERYfinder QuantiCust - Reference material DNA extract DUCK meat quantification	PMA13X
VERYfinder QuantiCust - Reference material DNA extract GOOSE meat quantification	PMA14X
VERYfinder QuantiCust - Reference material DNA extract GOAT meat quantification	PMA06X

VERYfinder Pure DNA Extract

Each box includes a vial containing 1200 ng of ION Force purified target DNA at a concentration 8 ng/ μ l extracted from raw material or heat treated material respectively (Heat treatment performed in autoclave at 121 °C for 20') upon customer request. PMA99R contains 60 ng of DNA from each kind of meat and bovine DNA to bring total DNA amount to 1200 ng.

Product List	1200 ng in 150 μ l Vial
VERYfinder - PORK reference DNA for meat traces PCR detection kits	PMA01R
VERYfinder - BOVINE reference DNA for meat traces PCR detection kits	PMA02R
VERYfinder - TURKEY reference DNA for meat traces PCR detection kits	PMA03R
VERYfinder - CHICKEN reference DNA for meat traces PCR detection kits	PMA04R
VERYfinder - SHEEP reference DNA for meat traces PCR detection kits	PMA05R
VERYfinder - GOAT reference DNA for meat traces PCR detection kits	PMA06R
VERYfinder - BUFFALO reference DNA for meat traces PCR detection kits	PMA07R
VERYfinder - HORSE reference DNA for meat traces PCR detection kits	PMA08R
VERYfinder - DONKEY reference DNA for meat traces PCR detection kits	PMA11R
VERYfinder - RABBIT reference DNA for meat traces PCR detection kits	PMA12R
VERYfinder - DUCK reference DNA for meat traces PCR detection kits	PMA13R
VERYfinder - GOOSE reference DNA for meat traces PCR detection kits	PMA14R
VERYfinder - CAT reference DNA for meat traces PCR detection kits	PMA96R
VERYfinder - DOG reference DNA for meat traces PCR detection kits	PMA97R



VERYfinder Ingredient Authenticity Kits

VERYfinder Dairies Assays

Product List	50 Tests
VERYfinder food fraud prevention - Detection of COW milk in BUFFALO	PMA31S-50

VERYfinder Fish Assays

Product List	50 Tests
VERYfinder food fraud prevention - Authenticity testing of ATLANTIC COD	PFA01A-50

VERYfinder Wheat Assays

Product List	100 Tests
VERYfinder food fraud prevention - SOFT WHEAT traces quantification	PSV02Q



WHATfinder

Virus Detection Kits

Hepatitis A virus (HAV) and Norovirus (NoV) are important agents of food-borne human viral illness. They are transmitted by the faecal-oral route, hence infecting their host after ingestion, followed by invasion of cells in the epithelial lining of the gut, and subsequent shedding into sewage.

HAV and NoV detection and quantification is difficult as they are non-culturable and biologically heterogeneous. However, in recent years real-time PCR has enabled confirmation and quantification of HAV and NoV.

Generon developed a portfolio of kits to provide the customers with a turn-key solution to test the presence of these pathogens according to ISO/CEN indications. The portfolio includes all the reagents to execute the ISO protocol from start to finish.

Each assay box contains target specific reagents (primers and probes), negative control and positive control. Mastermix should be order apart.

Product List	50 Tests
WHATfinder RTqPCR [Hepatitis A + Norovirus I + Norovirus II] detection (ISO15216)	PVW02A-50
WHATfinder RTqPCR [Hepatitis A]/[Norovirus I + Norovirus II] detection (ISO15216)	PVW03A-50
WHATfinder RTqPCR [Hepatitis A]/[Norovirus I]/[Norovirus II] detection (ISO15216)	PVW04A-50
WHATfinder RTqPCR [Norovirus I]/[Norovirus II] detection (ISO15216)	PVW07A-50
WHATfinder HAV ID - (ISO15216) compliant Hepatitis A virus detection RTqPCR kit	PVW08A-50
WHATfinder Norovirus Type II ID detection - (ISO15216)	PVW09A-50
WHATfinder Norovirus Type II ID detection - (ISO15216)	PVW10A-50



WHATfinder Virus Detection Kits

Due to matrix interferences losses of target virus can occur at several stages during sample virus extraction and RNA extraction. To control for these losses, the norm includes a thorough process control to monitor the efficacy of virions recovery. Samples are spiked prior to processing with a defined amount of a process control virus similar but genetically distinct from HAV and NoV. Generon selected as a process control a virus belonging to caliciviridae family considered a model for simulating NoV and HAV infections.

Each assay box contains target specific reagents (primers and probes), Mastermix, negative control, positive control and process control virus.

Product List	50 Tests
WHATfinder Recovery Efficiency - experimental process control RTqPCR kit (ISO15216)	PVW05A-50
WHATfinder RTqPCR [Norovirus I]/[Norovirus II]/[Proc.Ctrl] detection (ISO15216)*	PVW07P-50
WHATfinder RTqPCR [Hepatitis A]/[Proc.Ctrl.] detection (ISO15216)*	PVW08P-50
WHATfinder multiSCREEN 2-Plex RTqPCR foodborne virus [Hepatitis E]/[Proc.Ctrl.] *	PVW13P-50
WHATfinder 4-plex Rotavirus A + Norovirus I and II Triplex ID with process control*	PVW12P-50
WHATfinder Hepatitis E with process control - Duplex assay*	PVW13P-50

* Mastermix should be order apart.

Product List	50 Tests
ReGENERase One-step Mastermix	ENG003-50
ReGENERase PLUS One-step Mastermix with Internal Amplification Control	ENG016-50

Product List	>120 000 GUs in 120 µl
WHATfinder DigiCount - RTqPCR Std. for Hepatitis A quantification (ISO15216)	PVW08R
WHATfinder DigiCount - RTqPCR Std. for Norovirus I quantification (ISO15216)	PVW09R
WHATfinder DigiCount - IRTqPCR Std. for Norovirus II quantification (ISO15216)	PVW10R



GENERON is an organization with Quality System certified in compliance with UNI EN ISO 9001:2015.

«When I started GENERON, after two decades of work in the most important Italian contract food testing laboratory, my goal was to create a modern approach in response to a complex struggling industry. In the up to date and competitive global market purchasing and providing quality is a challenge. In direct contact with the customers I realized that little food safety issues in raw and finished materials turn into dramatic economical losses

and deterioration of brand image. At Generon we mostly aim to select and offer best-in-range and easy to use assays along with an effective, specific and just-in-time technical support. Today I can say that the company I lead is the company I wished. A customer-oriented company that provides chemical and biological QC tools analysis promptly, quickly, reliably and efficiently, using the most recent technologies and optimizing consolidated

methods. Thanks to our organizational capabilities and speed of response we have been able to achieve exceptional results placing us amongst the top players in the market. Even though ever more challenging, future offers exciting prospects and we remain high-reaching, willing to get further and to become the leading benchmark in the food & feed safety field.»



INGREDIENTS AUTHENTICITY | CHEMICAL RESIDUES | GMO
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